

FIG. 1

FIG. 2

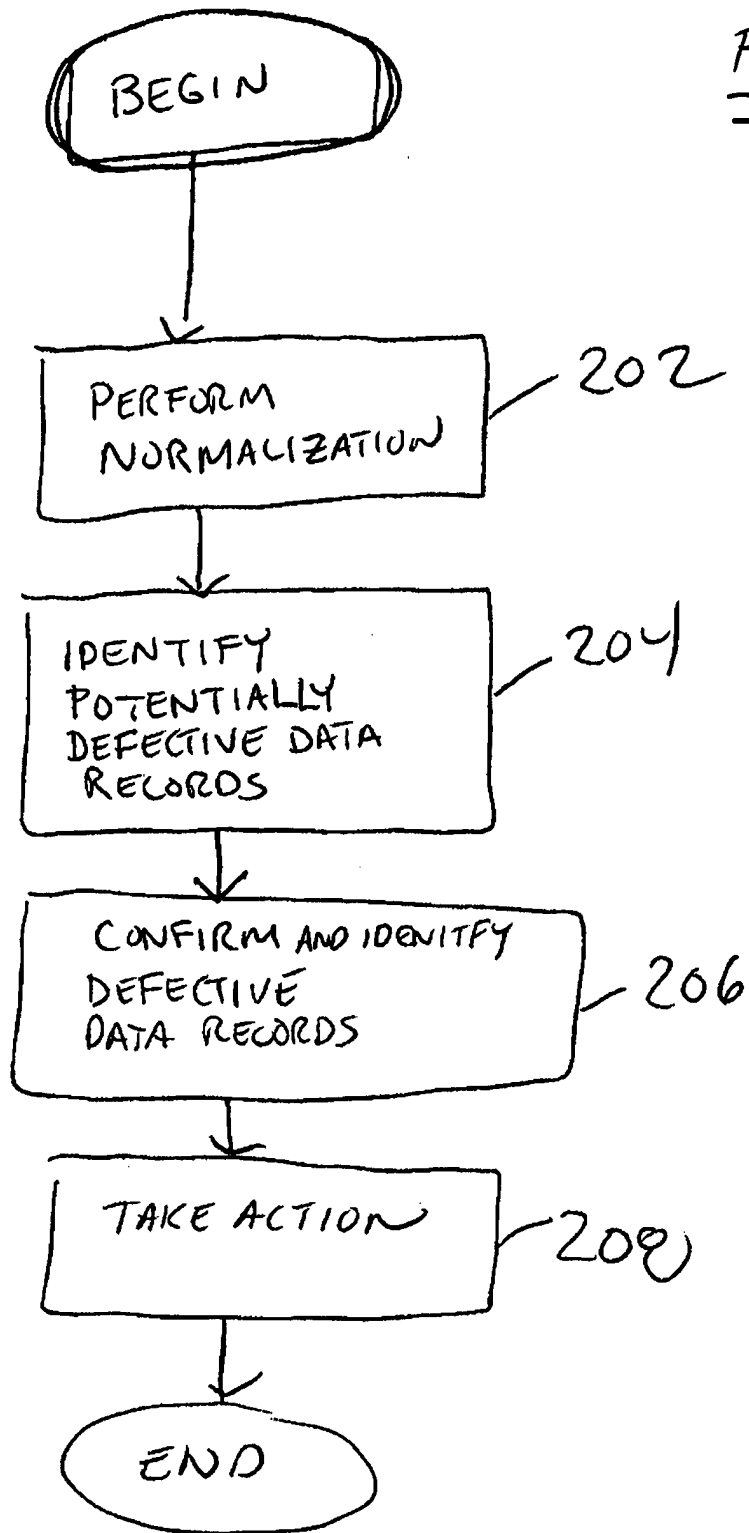
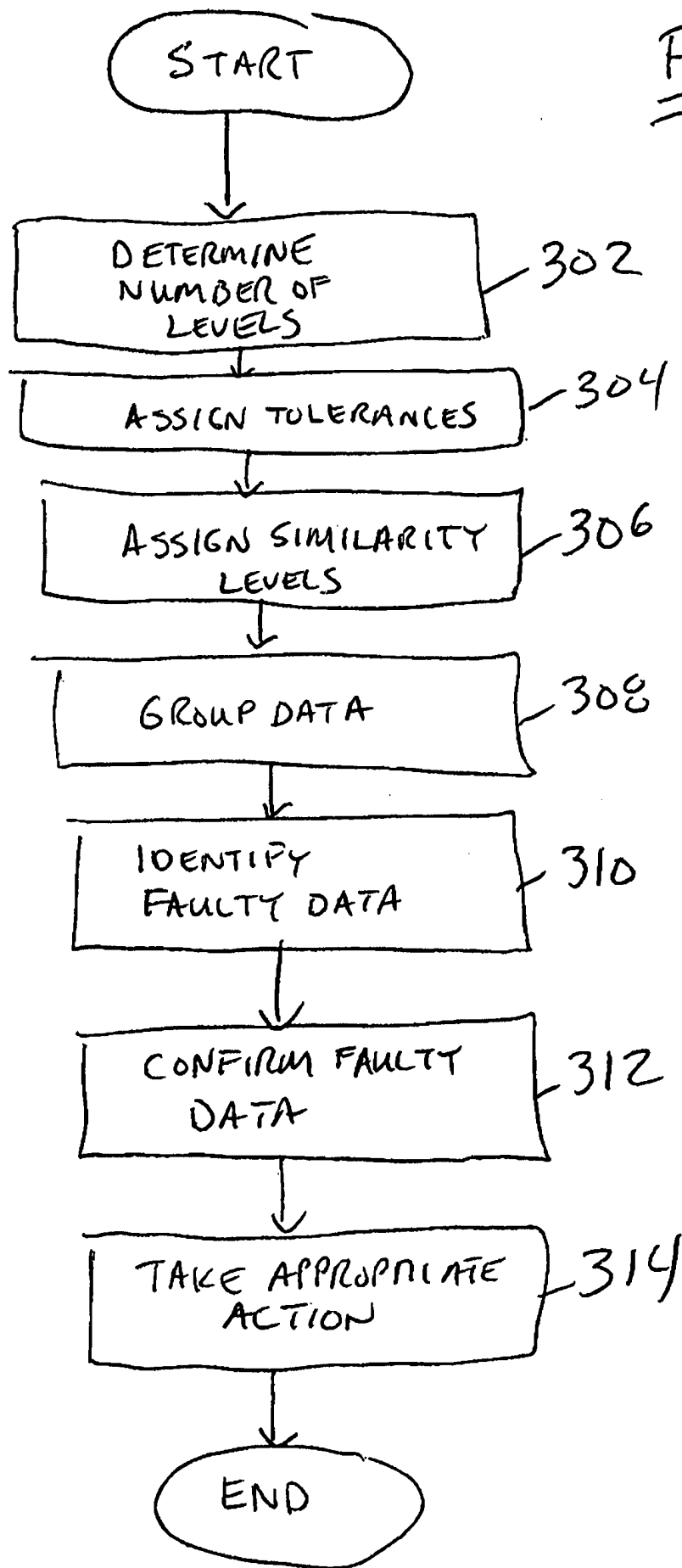


FIG. 3



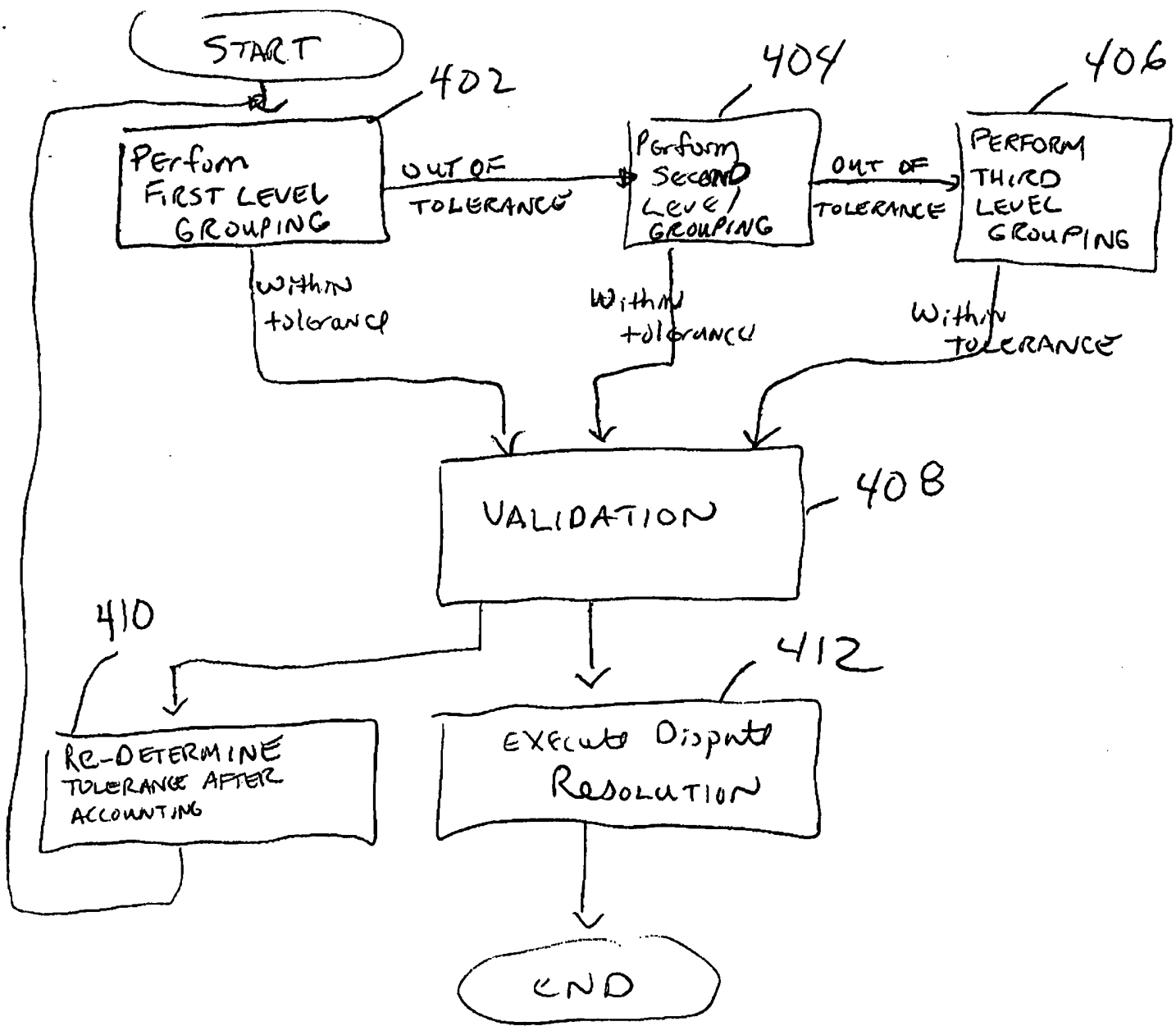


FIG. 4

FIG. 5

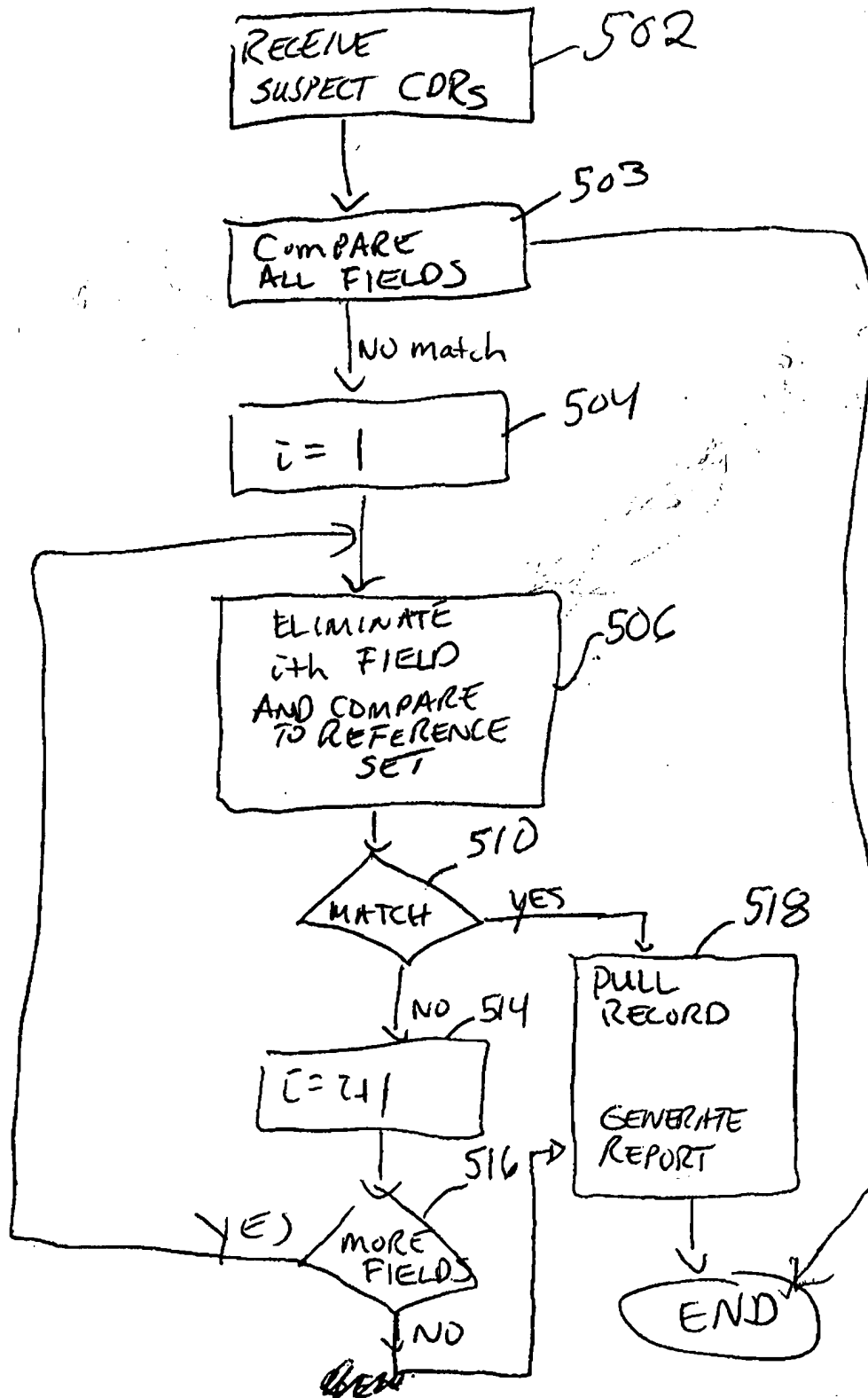


FIG. 6A

ID	Originating number	Terminating number	Date	Time	Duration (s)
1	6612853500	8473926647	7/15/2003	2:02:00 PM	25
2	7278564911	3346874158	7/15/2003	2:08:00 PM	14
3	6612853500	9724915705	7/15/2003	2:42:00 PM	65
4	6612853500	2516332478	7/15/2003	2:22:00 PM	43
5	7278564911	4053304319	7/15/2003	2:32:00 PM	12
6	6612853500	2054676542	7/15/2003	2:54:00 PM	2
7	6612853500	2155483962	7/15/2003	3:43:00 PM	54
8	7278564911	2564428639	7/15/2003	3:44:00 PM	76
9	6612853500	2584428974	7/15/2003	3:44:00 PM	43
10	7278564911	9565417608	7/15/2003	4:23:00 PM	22
11	6612853500	9724960312	7/15/2003	4:24:00 PM	11
12	6612853500	7035345067	7/15/2003	4:40:00 PM	145
13	6612853500	2058710227	7/15/2003	4:53:00 PM	43
14	7278564911	6163352288	7/15/2003	5:04:00 PM	64
15	7278564911	7706432824	7/15/2003	5:19:00 PM	23
16	6612853500	7279376090	7/15/2003	5:53:00 PM	216
17	7278564911	5614344310	7/15/2003	7:45:00 PM	241
18	7278564911	5808622969	7/16/2003	2:02:00 PM	261
19	6612853500	5616942852	7/16/2003	2:12:00 PM	241
20	7278564911	2166711776	7/16/2003	2:14:00 PM	21

FIG. 6B

ID	Originating number	Terminating number	Date	Time	Duration (s)
1	6612853500	8473926647	7/15/2003	2:02:00 PM	25
2	7278564911	3346874158	7/15/2003	2:08:00 PM	14
3	6612853500	9724915705	7/16/2003	2:42:00 PM	65
4	6612853500	2516332478	7/15/2003	2:22:00 PM	43
5	7278564911	4053304319	7/15/2003	2:32:00 PM	12
6	6612853500	2054676542	7/15/2003	2:54:00 PM	2
7	6612853500	2155483962	7/15/2003	3:34:00 PM	54
8	7278564911	2564428639	7/15/2003	3:44:00 PM	76
9	6612853500	2564428974	7/15/2003	3:54:00 PM	43
10	7278564911	9565417808	7/15/2003	4:23:00 PM	22
11	6612853500	9724960312	7/15/2003	4:24:00 PM	11
12	6612853500	7035345067	7/15/2003	4:40:00 PM	195
13	6612853500	2058710227	7/15/2003	4:53:00 PM	49
14	7278464911	6163352268	7/15/2003	5:04:00 PM	64
15	7278564911	7706432824	7/15/2003	5:19:00 PM	13
16	6612853500	7279378090	7/15/2003	5:53:00 PM	216
17	7278564911	5614344310	7/15/2003	7:45:00 PM	281
18	7278564911	5806622989	7/16/2003	2:02:00 PM	261
19	6612853500	5616942852	7/16/2003	2:12:00 PM	241
20	7278564911	2166711776	7/16/2003	2:14:00 PM	21
21	5122322321	6172332321	7/15/2003	2:33:00 PM	43

FIG. 6C

Originating number	Date	Hour	Calls	Duration (s)
6612853500	7/15/2003	14	4	135
7278564911	7/15/2003	14	2	26
6612853500	7/15/2003	15	2	97
7278564911	7/15/2003	15	1	76
6612853500	7/15/2003	16	3	199
7278564911	7/15/2003	16	1	22
6612853500	7/15/2003	17	1	216
7278564911	7/15/2003	17	2	87
7278564911	7/15/2003	19	1	241
6612853500	7/16/2003	14	1	241
7278564911	7/16/2003	14	2	282

FIG. 6D

Originating number	Date	Hour	Calls	Duration (s)
5122322321	7/15/2003	14	1	43
6612853500	7/15/2003	14	3	70
7278564911	7/15/2003	14	2	26
6612853500	7/15/2003	15	2	97
7278564911	7/15/2003	15	1	76
6612853500	7/15/2003	16	3	255
7278564911	7/15/2003	16	1	22
6612853500	7/15/2003	17	1	216
7278464911	7/15/2003	17	1	64
7278564911	7/15/2003	17	1	13
7278564911	7/15/2003	19	1	281
6612853500	7/16/2003	14	2	306
7278564911	7/16/2003	14	2	282

FIG. 6E

Originating Number	Hour	Date	Dataset 1 Calls	Dataset 2 Calls	Count Variance
7278564911	14	7/15/2003	2	2	0
6612853500	14	7/15/2003	4	3	-0.25
5122322321	14	7/15/2003	0	1	1
7278564911	15	7/15/2003	1	1	0
6612853500	15	7/15/2003	2	2	0
7278564911	16	7/15/2003	1	1	0
6612853500	16	7/15/2003	3	3	0
7278564911	17	7/15/2003	2	1	-0.5
7278464911	17	7/15/2003	0	1	1
6612853500	17	7/15/2003	1	1	0
7278564911	19	7/15/2003	1	1	0
7278564911	14	7/16/2003	2	2	0
6612853500	14	7/16/2003	1	2	1

FIG. 6F

Originating Number	Hour	Date	Dataset 1 Calls	Dataset 2 Calls	Count Variation
5122322321	14	7/15/2003	0	1	1
7278464911	17	7/15/2003	0	1	1
6612853500	14	7/16/2003	1	2	1

FIG. 6G

Originating Number	Terminating Number	Date	Ten Minutes	Calls	Duration(s)
6612853500	5616942852	7/16/2003	1410	1	241

FIG. 6H

Originating number	Terminating Number	Date	Ten Minutes	Calls	Durations(s)
5122322321	6172332321	7/15/2003	1430	1	43
7278464911	6163352268	7/15/2003	1700	1	64
6612853500	5616942852	7/16/2003	1410	1	241
6612853500	9724915705	7/16/2003	1440	1	65

FIG. 6I

Originating Number	Terminating Number	Ten Minutes	Date	Dataset 1 Calls	Dataset 2 Calls	Count Variance
5122322321	6172332321	1430	7/15/2003	0	1	1
7278464911	6163352268	1700	7/15/2003	0	1	1
6612853500	5616942852	1410	7/16/2003	1	1	0
6612853500	9724915705	1440	7/16/2003	0	1	1

FIG. 6J

Originating Number	Terminating Number	Ten Minutes	Date	Dataset 1 Calls	Dataset 2 Calls	Count Variance
5122322321	6172332321	1430	7/15/2003	0	1	1
7278464911	6163352268	1700	7/15/2003	0	1	1
6612853500	9724915705	1440	7/16/2003	0	1	1

FIG. 6K

ID	Originating number	Terminating number	Date	Time	Duration (s)
21	5122322321	6172332321	7/15/2003	2:33:00 PM	43
3	6612853500	9724915705	7/16/2003	2:42:00 PM	65
14	7278464911	6163352268	7/15/2003	5:04:00 PM	64

FIG. 6L

ID	Originating number	Terminating number	Date 1	Date 2	Time	Duration (s)
3	6612853500	9724915705	7/15/2003	7/16/2003	2:42:00 PM	65

FIG. 6M

ID	Originating number 1	Originating number 2	Terminating number	Date	Time	Duration (s)
14	7278464911	7278464911	6163352268	7/15/2003	5:04:00 PM	64

FIG. 6N

ID	Originating number	Terminating number	Date	Time	Duration (s)	Problem
21	5122322321	6172332321	7/15/2003	2:33:00 PM	43	Invalid CDR
3	6612853500	9724915705	7/16/2003	2:42:00 PM	65	Incorrect Date
14	7278464911	6163352268	7/15/2003	5:04:00 PM	64	Incorrect Originating Number

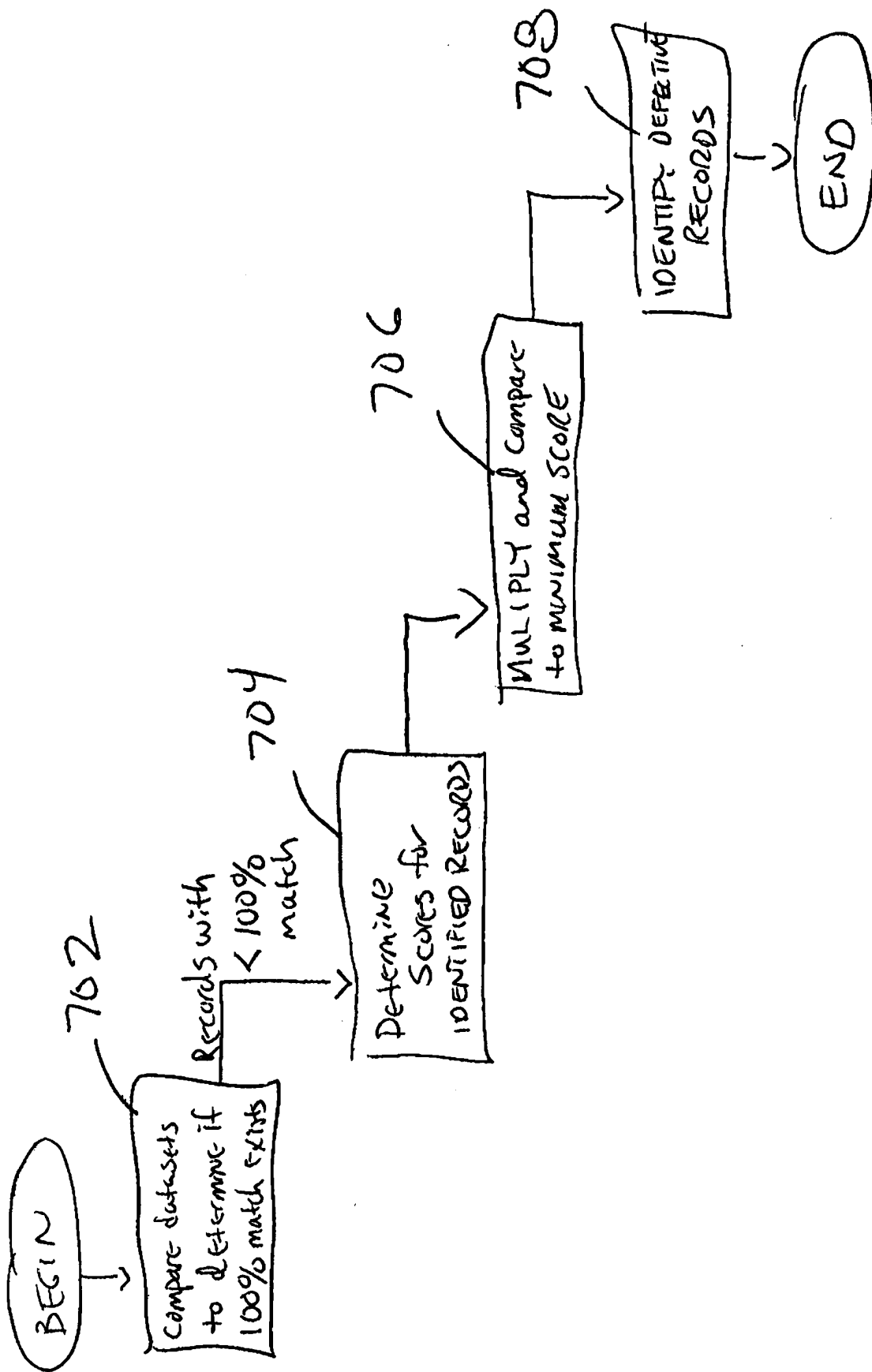


FIG. 7

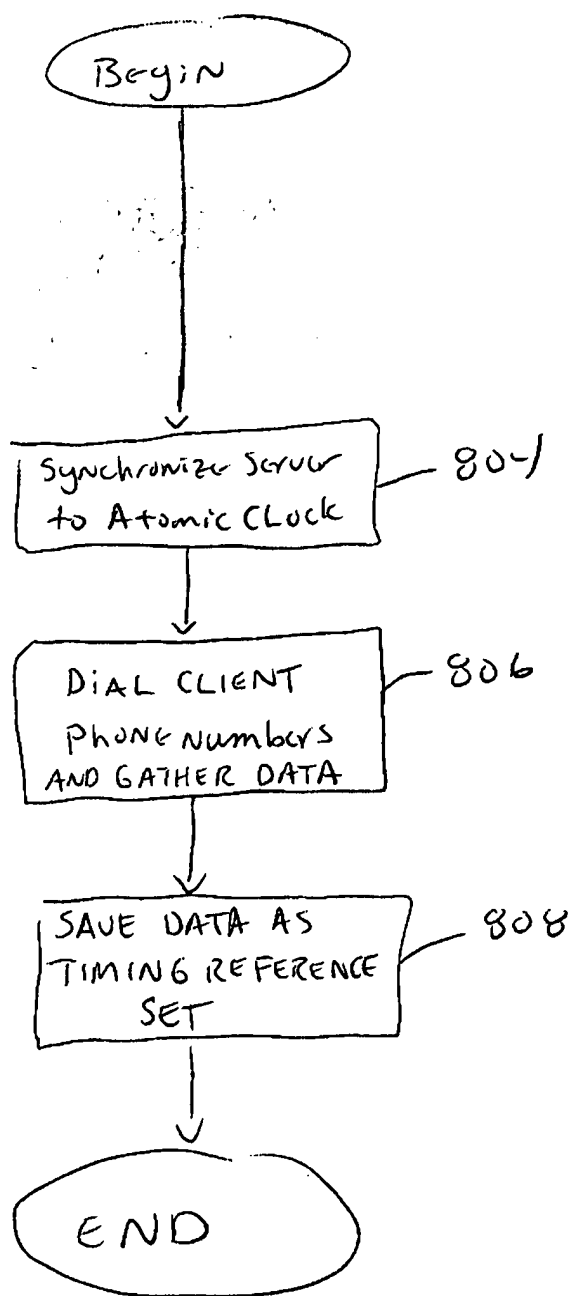


FIG. 8

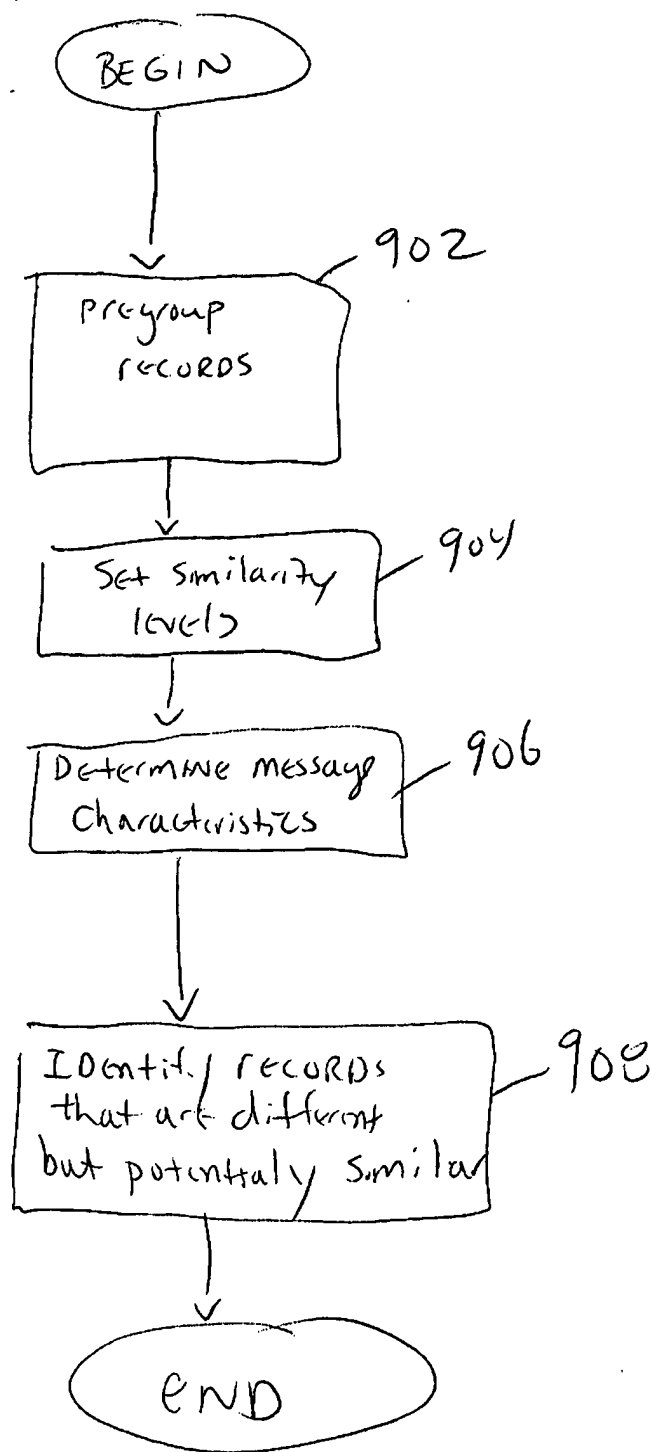
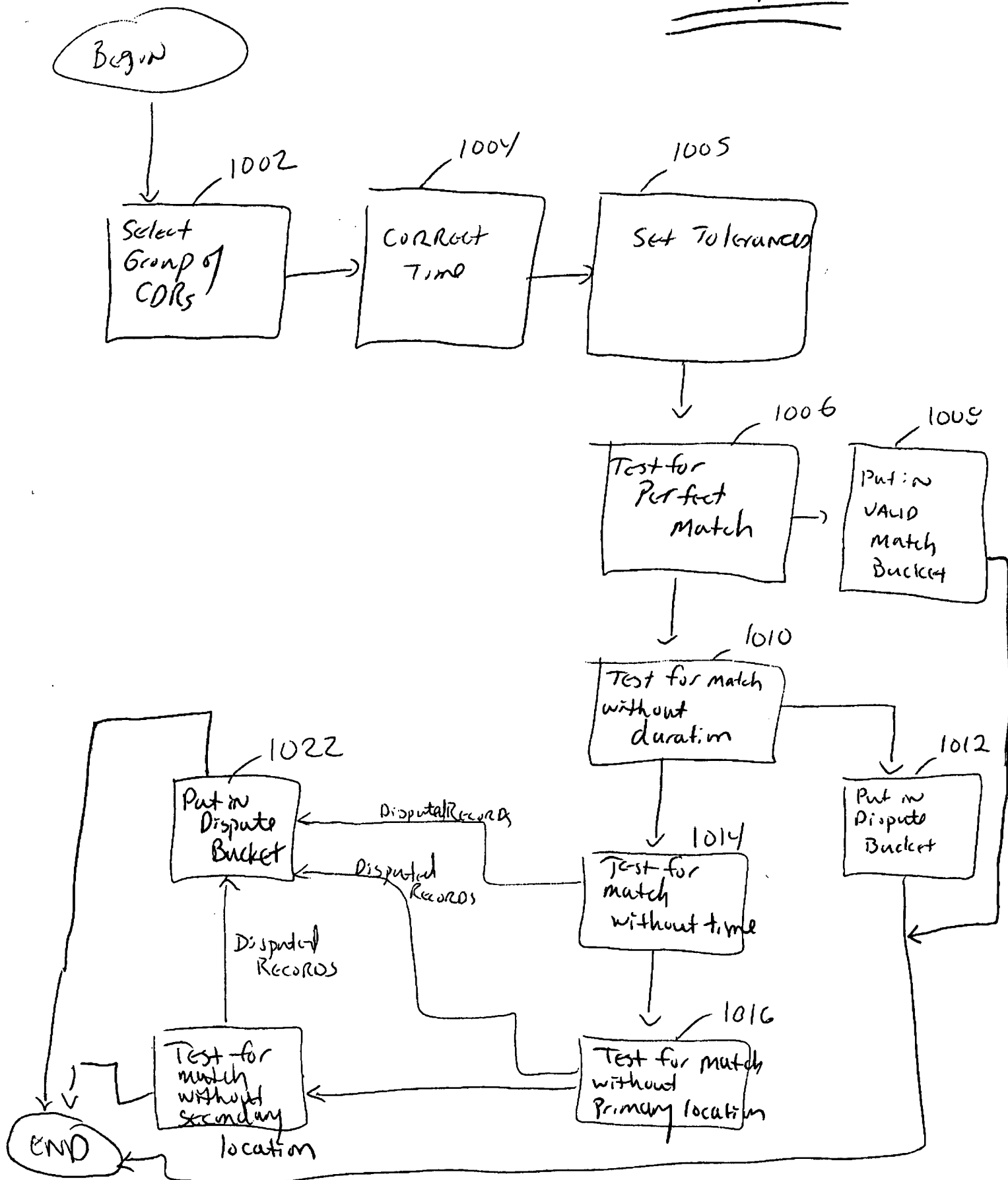
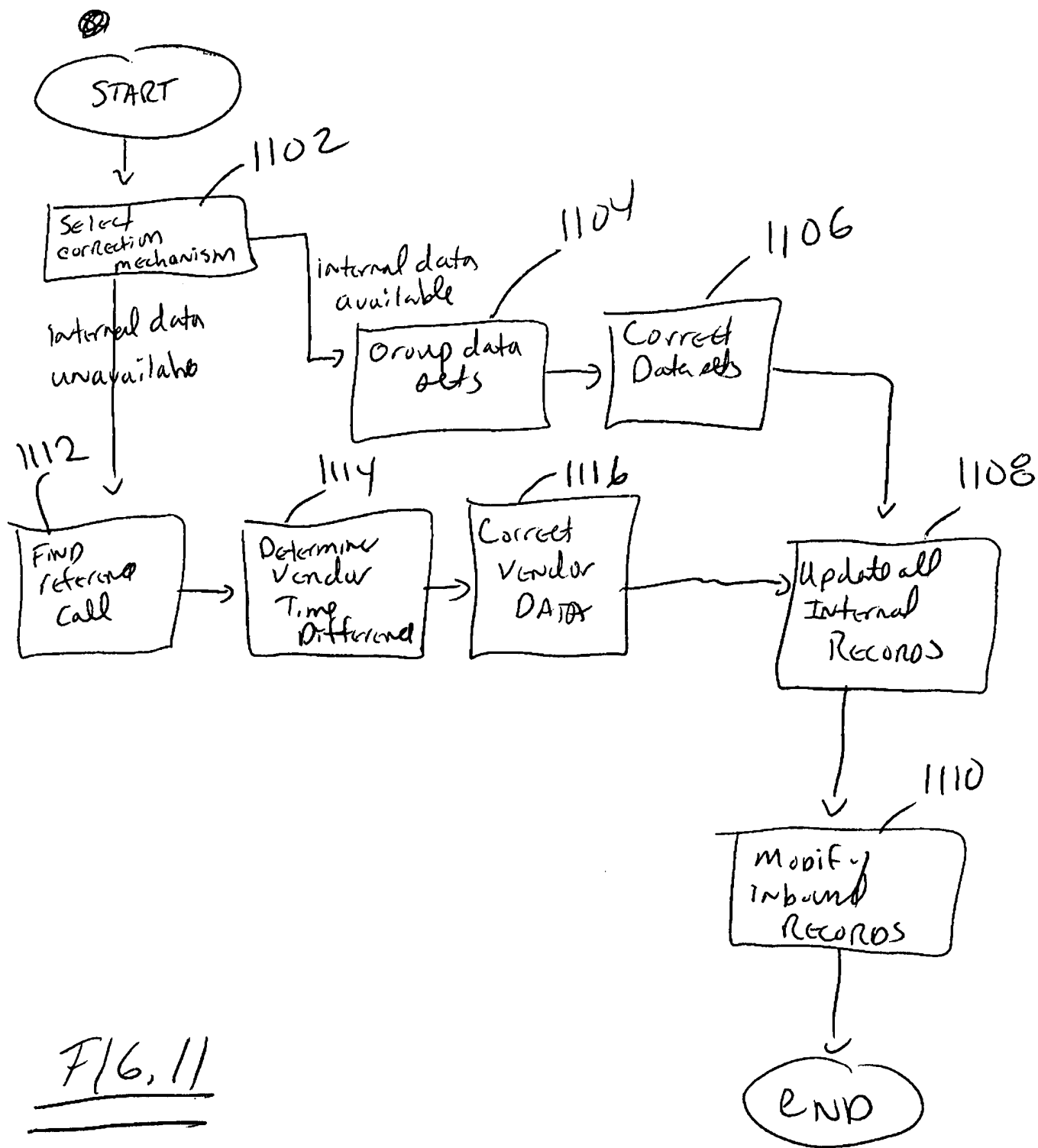


FIG. 9

F/G, 10





F/6, 11

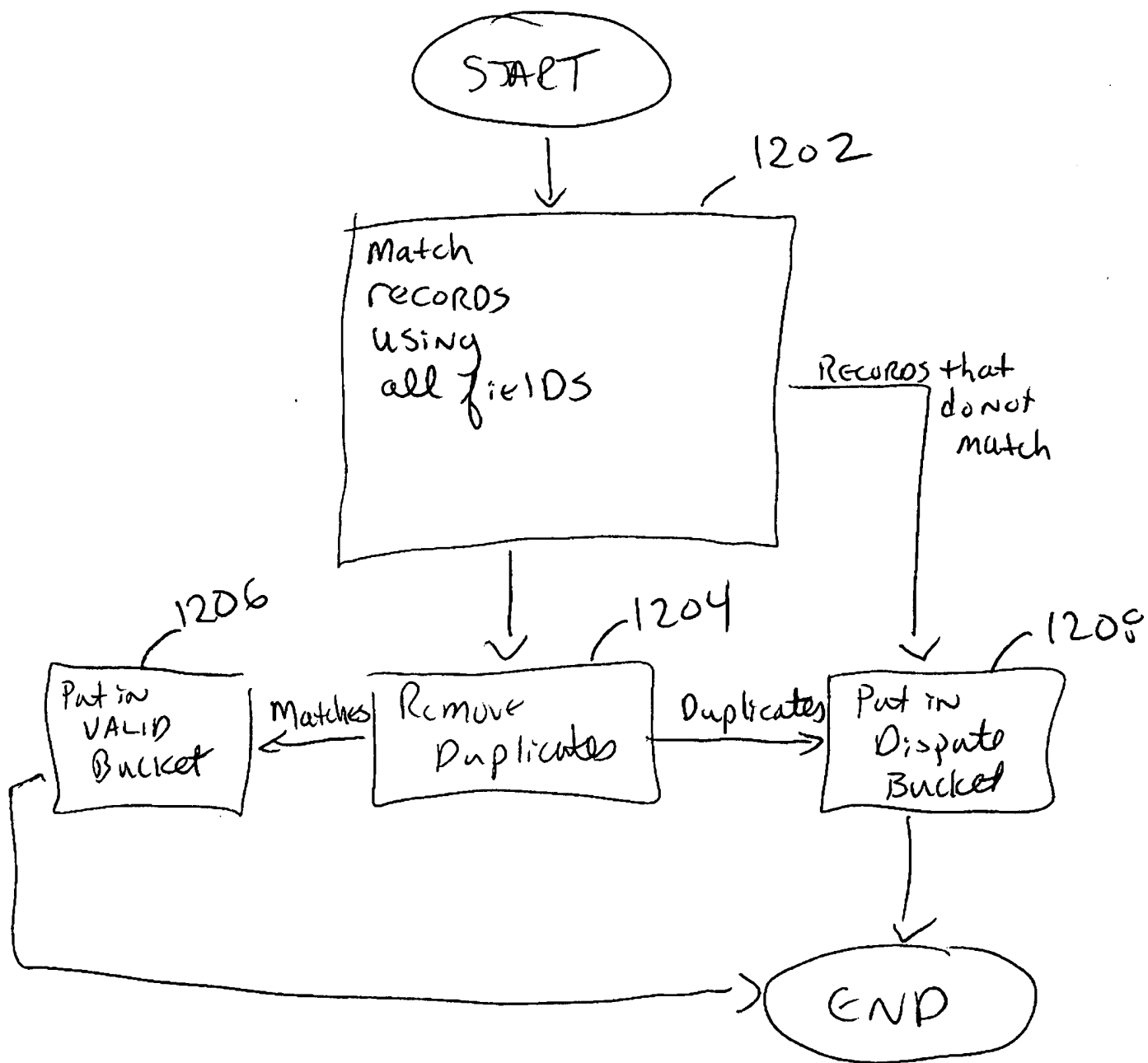
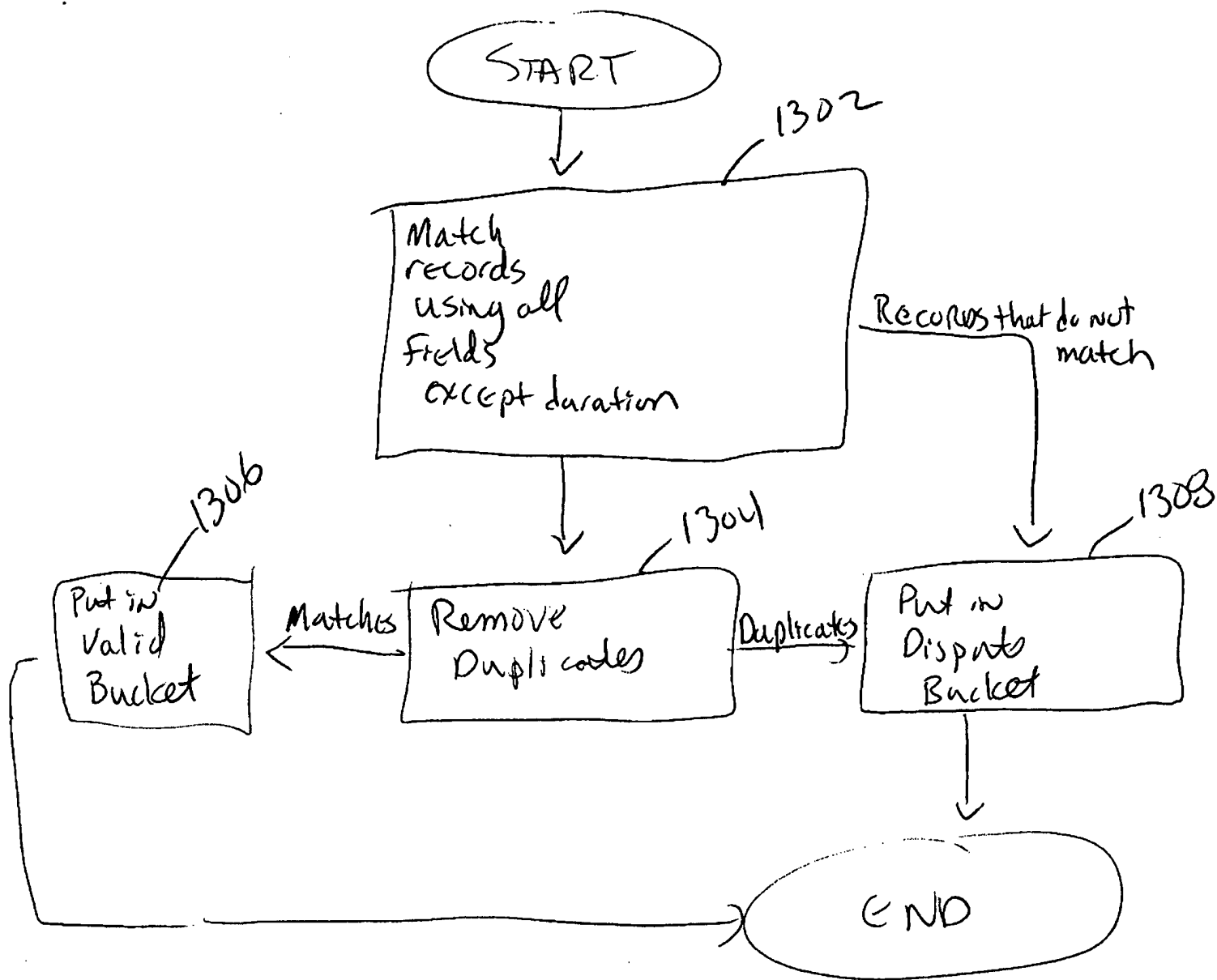


FIG. 12



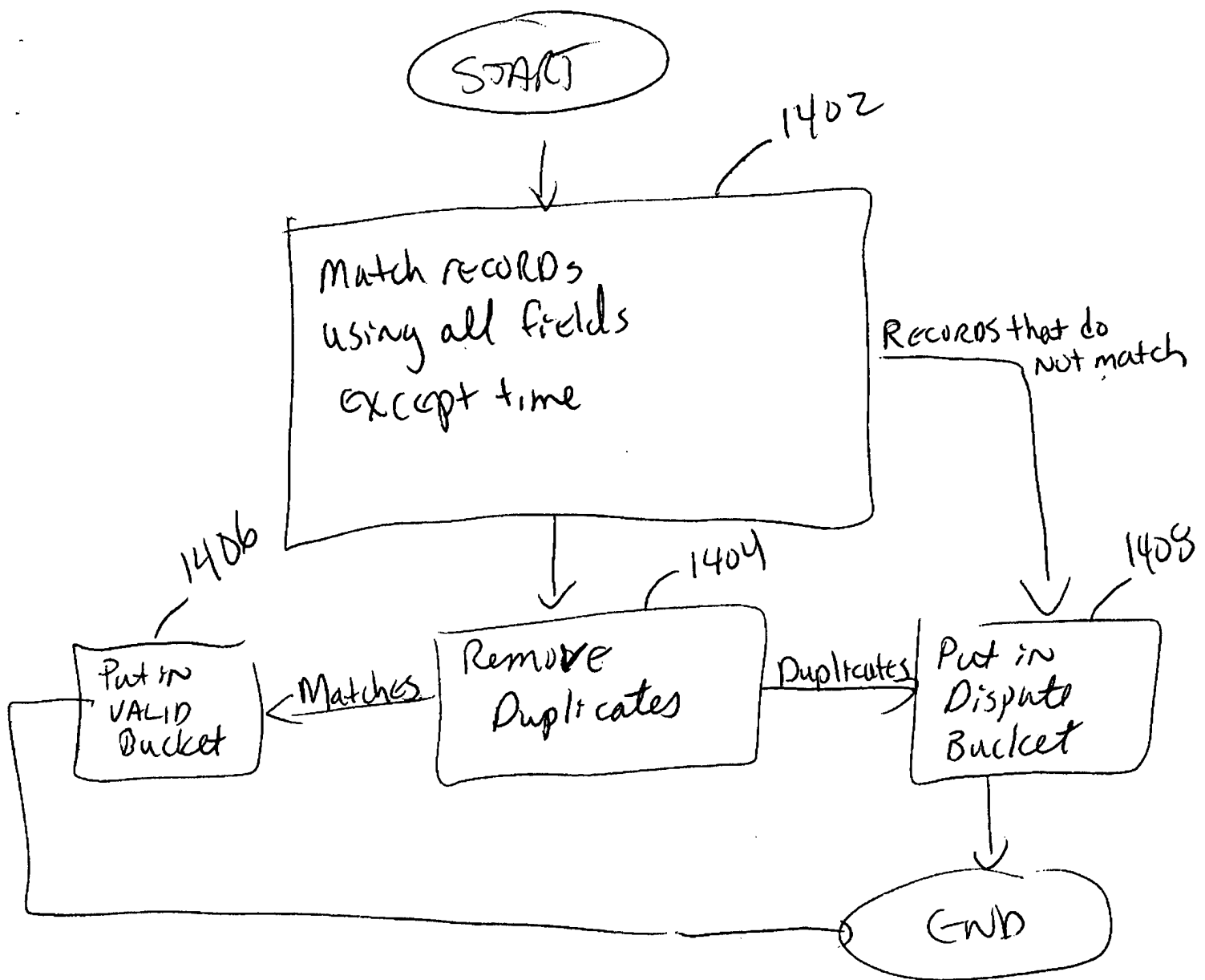


FIG. 14

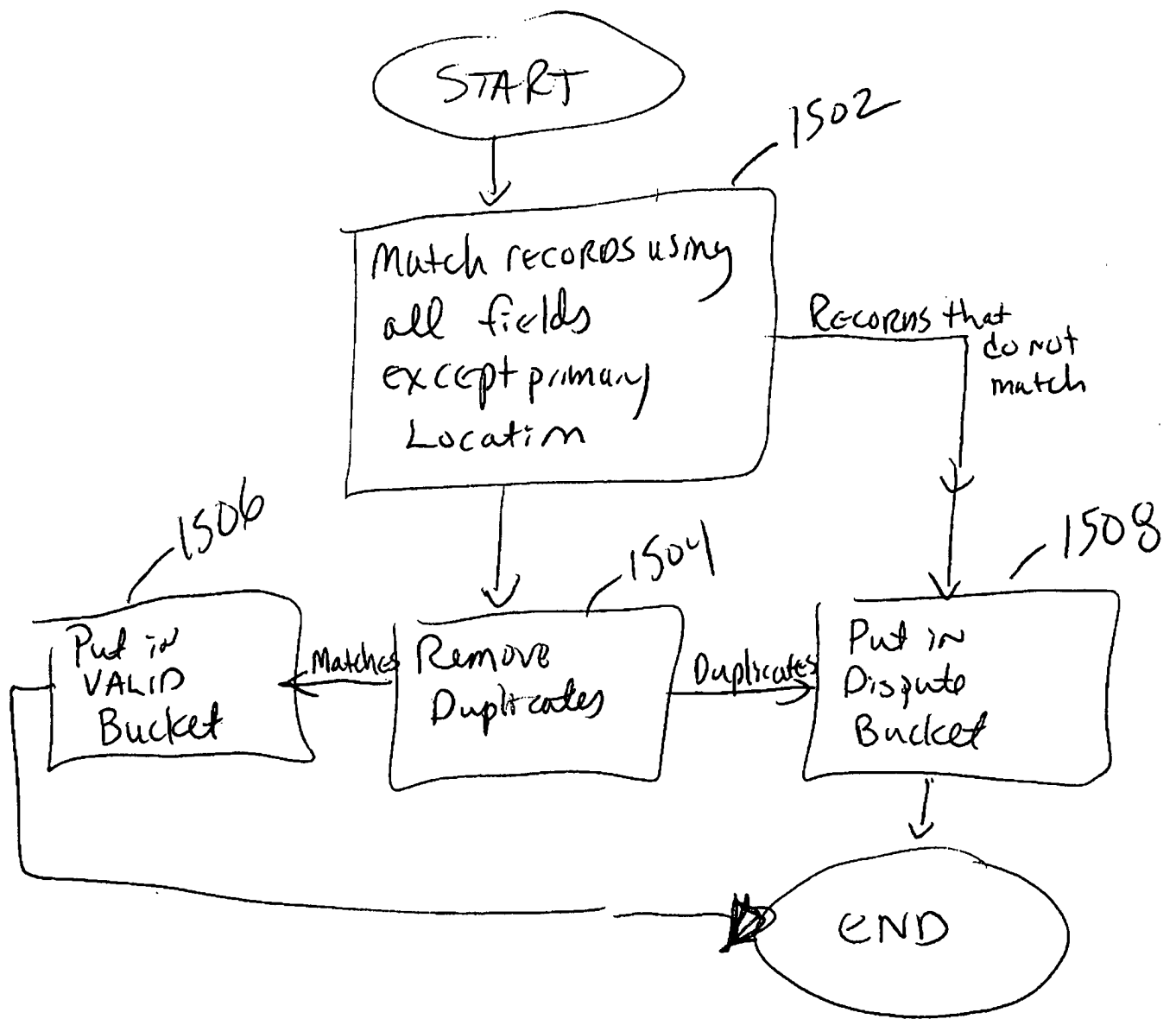


FIG. 15

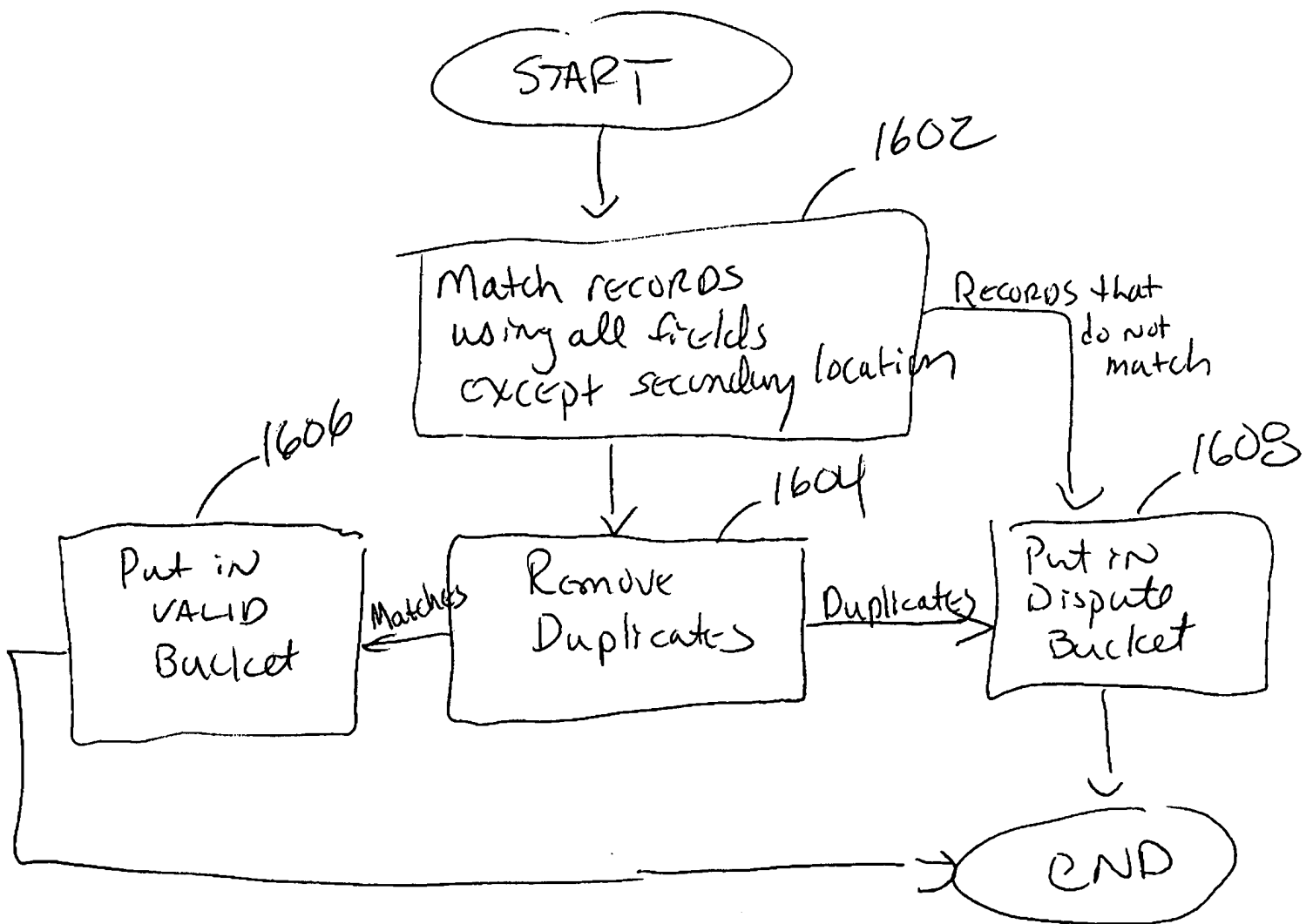


FIG. 16